Firmato digitalmente da
Stefano Colombo
CN = Colombo Stefano
O = Ordine degli Ingegneri della Provincia di Milano
C = IT

AIR HANDLING UNIT SCHEDULE 01

AHU-01 & AHU-02				AHU SECTION	DESCRIPTION	AHU SECTION	DESCRIPTION
LENGTH	WIDTH	HEIGTH	WEIGHT	**THERMAL HEAT WHEEL**			
5270 mm	2120 mm	2570 mm	3282 kg	HEATING / COOLING CAPACITY	126.09 kW / 148.55 kW		
AHU PANEL THICKNESS (mm)		25		THERMAL EFFICIENCY (HEATING / COOLING)	83.4 % / 87.6 %		
HEIGHT OF BASEFRAME (mm)		140		DRIVE	0.37 kW (1.0 A, 3x 400V, 50 Hz)		
INSULATION (mm)		54			DRAIN CONNECTION 1 1/4"		
MANUFACTURER		ROCCHEGGIANI		**SUPPLY AIR FAN**		**EXHAUST AIR FAN**	
				QUANTITY	2	QUANTITY	2
				FLOW RATE	13000 m3/h	FLOW RATE	15000 m3/h
				EXTERNAL STATIC PRESSURE	200 Pa	EXTERNAL STATIC PRESSURE	200 Pa
				POWER	2x3.4 kW (5.13 A, 3x 400V, 50 Hz)	POWER	2x3.5 kW (5.32 A, 3x 400V, 50 Hz)
				SFP	859 W/(m3 s)	SFP	731 W/(m3 s)
				DX COIL			
				CAPACITY (HEATING / COOLING)	30.91 kW / 56 kW		
				REFRIGERANT	R32		
				STEAM HUMIDIFIER			
					7.5 kW (3x 400 V, 50 Hz)		
					DRAIN CONNECTION: 1 1/4"		
				SUPPLY AIR TEMPERATURE (SUMMER / WINTER)	23.0 °C / 23.0 °C		

NOTES:
1. AHU TO BE LOCATED OUTDOORS
2. AHU TO BE SUPPLIED WITH THE FOLLOWING: MAG, GAUGES ON ALL FILTERS, GUARDS ON ALL FANS, WINDOWS ON ACCESS DOORS TO BE SAFETY GLASS OR UV RESISTANT POLYCARBONATE
3. ALL MOTORS TO BE EC TYPE. ALL MOTORS SHOULD COME PRE-WIRED AND COMMISSIONED BY AHU VENDOR
4. LIGHTS INSTALLED IN EACH ACCESS SECTION PRE-WIRED TO INDIVIDUAL LIGHT SWITCHES
5. AHU TO BE SUPPLIED WITH FULL CONTROLS PACKAGE INCLUDING CONTROL PANEL, BMS PANEL AND CONTROL INSTRUMENTS. BMS PANEL TO BE LOCATED WITHIN UNIT FRAME. AHU CONTROL SYSTEM TO BE COMMISSIONED BY AHU VENDOR PRIOR TO DELIVERY
6. AHU TO HAVE RUN FAULT SIGNAL TO BE WIRED BACK TO BMS
7. MECHANCAL CONTRACTOR TO SUPPLY AND INSTALL ACCESS PLATFORMS & SUPPORT FRAME
8. * DENOTES VENDOR TO SUPPLY INFORMATION

AIR HANDLING UNIT SCHEDULE 02

AHU-03				AHU SECTION	DESCRIPTION	AHU SECTION	DESCRIPTION
LENGTH	WIDTH	HEIGTH	WEIGHT	**THERMAL HEAT PLATE EXCHANGER - DIAGONAL**			
5530 mm	1220mm	2040mm	2313 kg	HEATING / COOLING CAPACITY	17.94 kW / 21.7 kW		
AHU PANEL THICKNESS (mm)		25		THERMAL EFFICIENCY (HEATING / COOLING)	79.8 % / 82.1 %		
HEIGHT OF BASEFRAME (mm)		140					
INSULATION (mm)		54			DRAIN CONNECTION 1 1/4"		
MANUFACTURER		ROCCHEGGIANI		**SUPPLY AIR FAN**		**EXHAUST AIR FAN**	
				QUANTITY	1	QUANTITY	1
				FLOW RATE	4200 m3/h	FLOW RATE	4800 m3/h
				EXTERNAL STATIC PRESSURE	200 Pa	EXTERNAL STATIC PRESSURE	200 Pa
				POWER	2.2 kW (4.35 A, 3x 400V, 50 Hz)	POWER	1.5 kW (3.21 A, 3x 400V, 50 Hz)
				SFP	1068 W/(m3 s)	SFP	844 W/(m3 s)
				DX COIL			
				CAPACITY (HEATING / COOLING)	1.69 kW / 44.55 kW		
				REFRIGERANT	R32		
				STEAM HUMIDIFIER			
					13.5 kW (3x 400 V, 50 Hz)		
					DRAIN CONNECTION: 1 1/4"		
				SUPPLY AIR TEMPERATURE (SUMMER / WINTER)	23.0 °C / 23.0 °C		

NOTES:
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2. AHU TO BE SUPPLIED WITH THE FOLLOWING: MAG, GAUGES ON ALL FILTERS, GUARDS ON ALL FANS, WINDOWS ON ACCESS DOORS TO BE SAFETY GLASS OR UV RESISTANT POLYCARBONATE
3. ALL MOTORS TO BE EC TYPE. ALL MOTORS SHOULD COME PRE-WIRED AND COMMISSIONED BY AHU VENDOR
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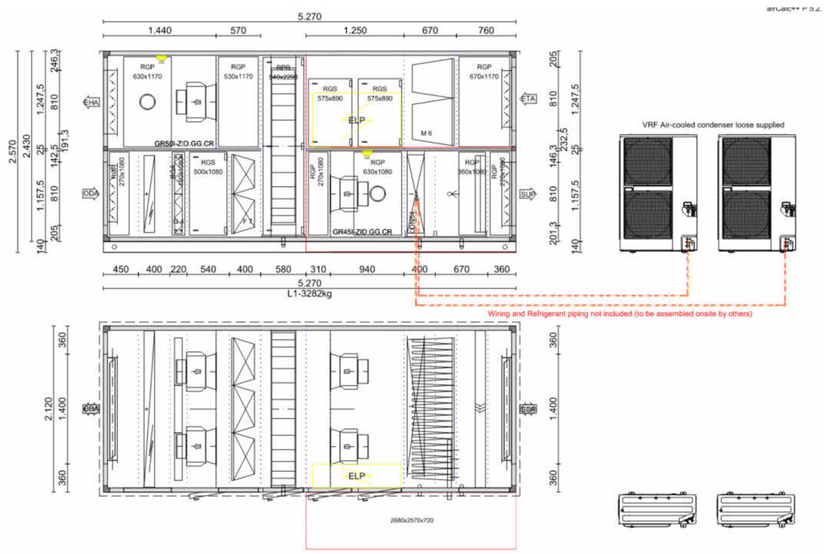
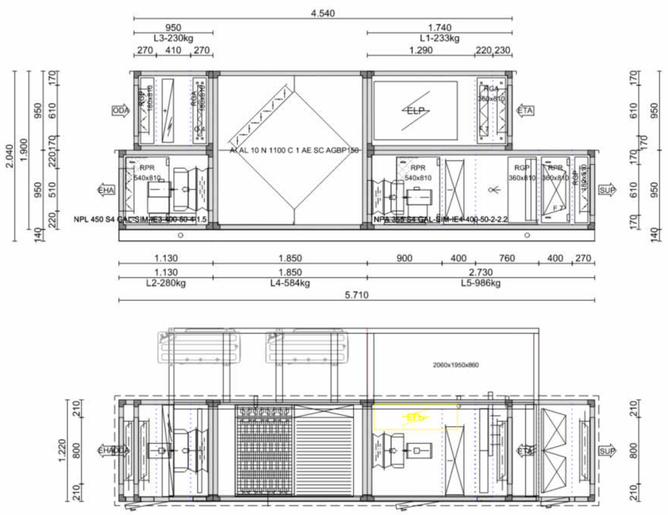
7. MECHANCAL CONTRACTOR TO SUPPLY AND INSTALL ACCESS PLATFORMS & SUPPORT FRAME
8. * DENOTES VENDOR TO SUPPLY INFORMATION

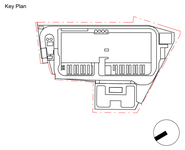




NOTE GENERALI:

A. QUESTO DIAGRAMMA DI FLUSSO A BLOCCHI È STATO SVILUPPATO PER MOSTRARE LA CONFIGURAZIONE TIPICA DELL'IMPIANTO DI TRATTAMENTO DELLE ACQUE IN MANIERA SCHEMATICA
B. QUESTA CONFIGURAZIONE È SOGGETTA A CONFERMA DEI FORNITORI DELLE APPARECCHIATURE PER QUANTO RIGUARDA LA QUALITÀ DELL'ACQUA.
C. LA SEPARAZIONE DELLE ACQUE DI PRIMA PIOGGIA E DELLA SALAMOIA DELL'ACQUA DI RAFFREDDAMENTO DEVE ESSERE CONFERMATA.

Key Plan



Rev.	Data	Descrizione
P01	31/10/2025	Permesso di Costruire

Zibido San Giacomo

BRUNO MATTEO
CERTIFICATO ORDINE DEGLI INGEGNERI DI MILANO N. 23.942

Progettazione masterplan, Progettazione architettonica, Progettazione ingegneristica

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Committente
Amazon Data Services Italy S.r.l.

Progetto
PERMESSO DI COSTRUIRE
art. 10(L), D.P.R. 6 Giugno 2001, n° 380

Progetto di Data Center
in Via G. Verdi n° 9, Zibido San Giacomo,
Milano, Italia

Fase progettuale:
Permesso di Costruire

Titolo Elaborato
EDIFICIO TRATTAMENTO ACQUE - SCHEDA ATTREZZATURA DI WTB MECCANICA TAVOLA 2

Scala

Disciplina	By / Chkd / Appd
Meccanico	GH/VM/FP
Arup Job No	**Rev**
306134-00	P01

Tav. No
Z-M-PDC-SC-XX-21

Do not scale

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